

MAPPING TENDER GREEN AND AUTUMN COLOR BY SATELLITE DATA FUSION

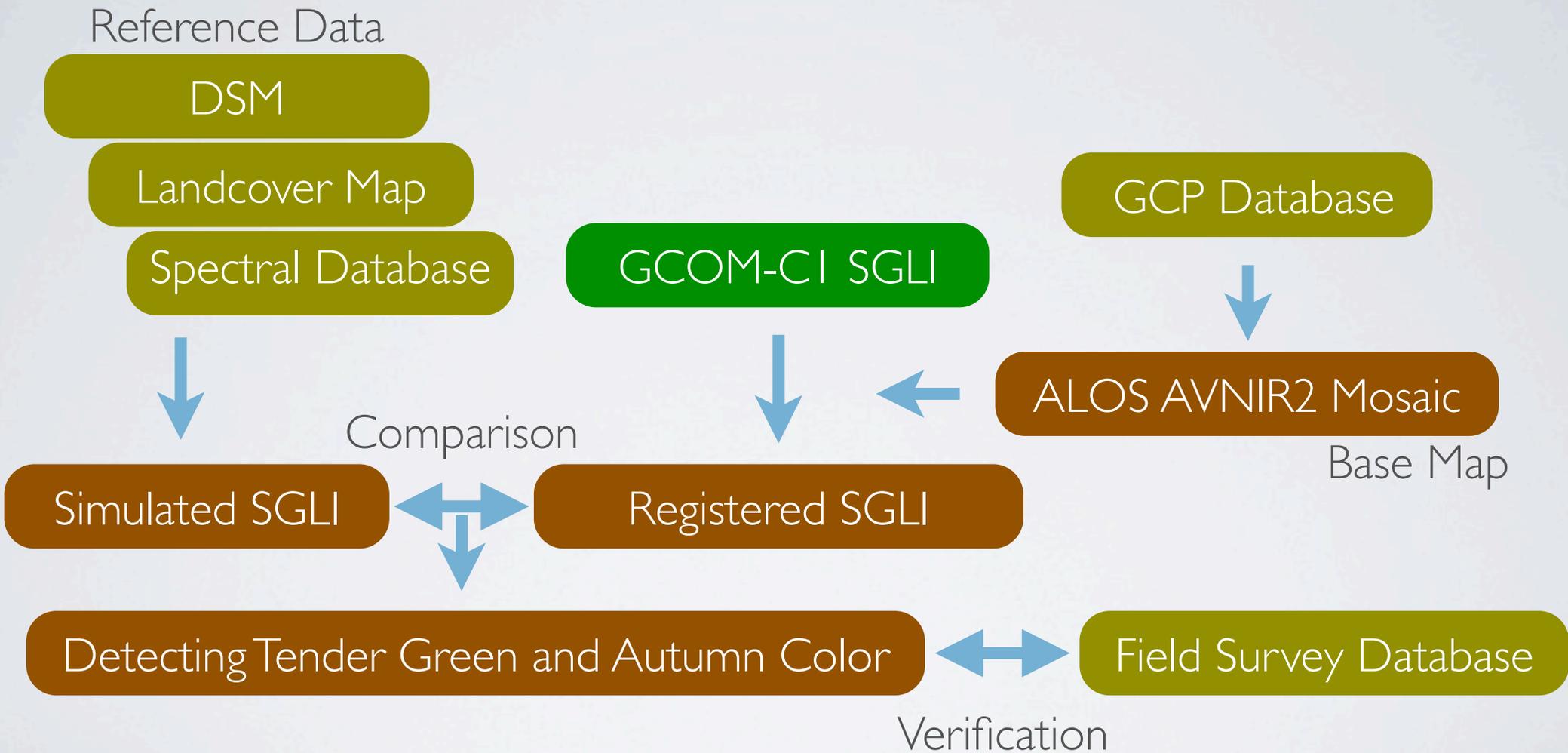
Masataka TAKAGI, Kochi University of Technology

Masayuki Matsuoka, Kochi University

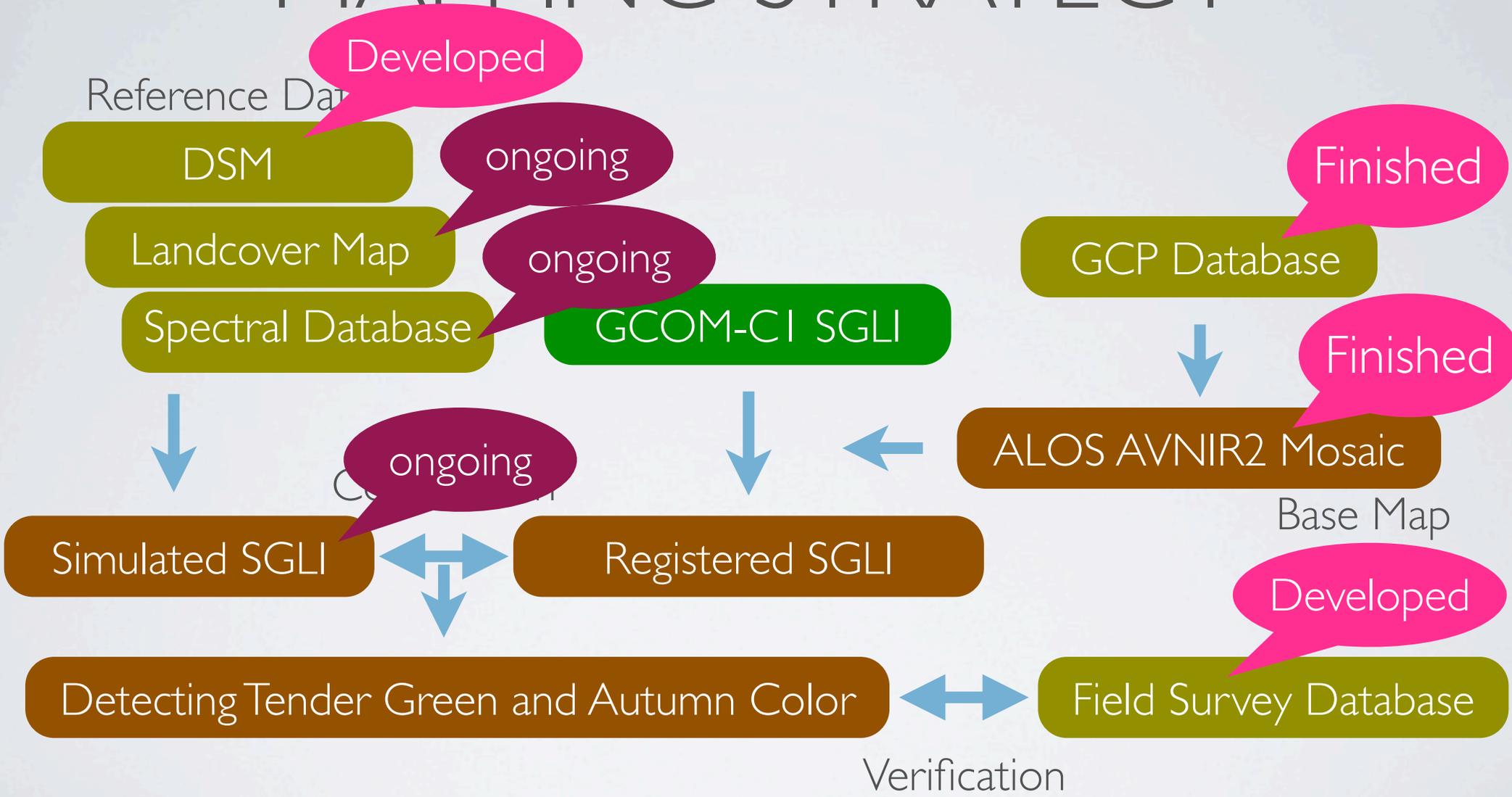
Atsuko Nonoshita, Kagawa University

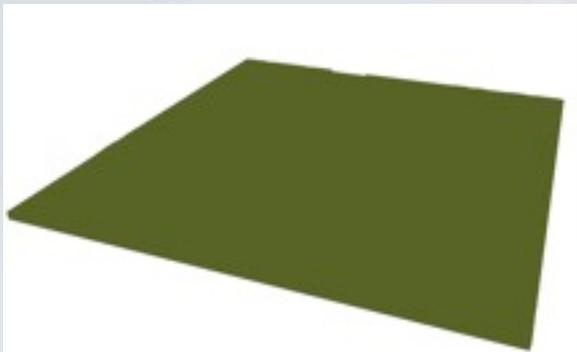
Eiji Kodani, Forestry and Forest Products Research Institute

MAPPING STRATEGY



MAPPING STRATEGY

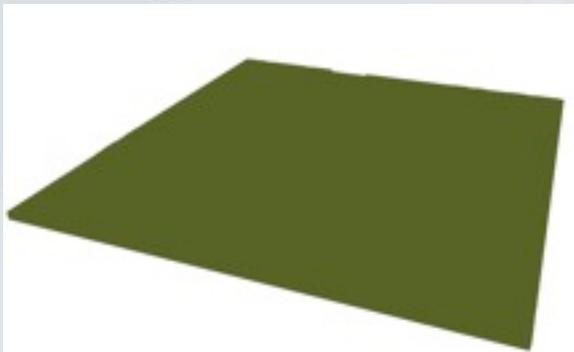




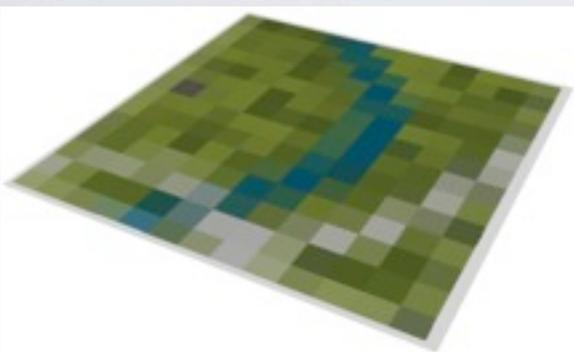
GCOM-CI
MODIS



Real World



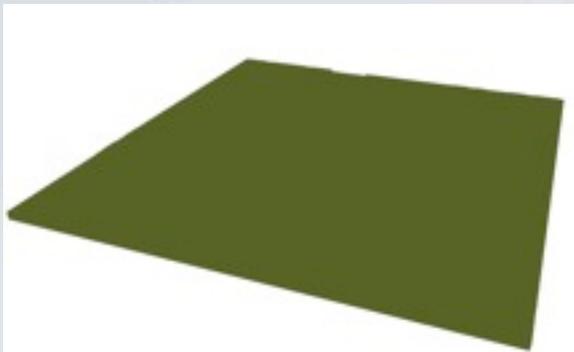
GCOM-CI
MODIS



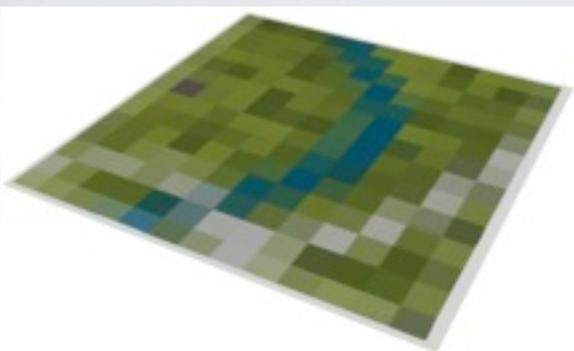
Landsat TM
ALOS AVNIR2



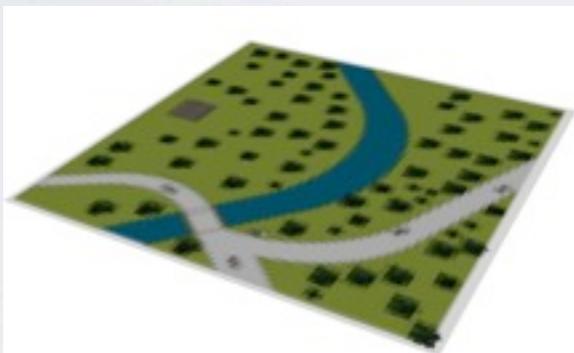
Real World



GCOM-CI
MODIS



Landsat TM
ALOS AVNIR2



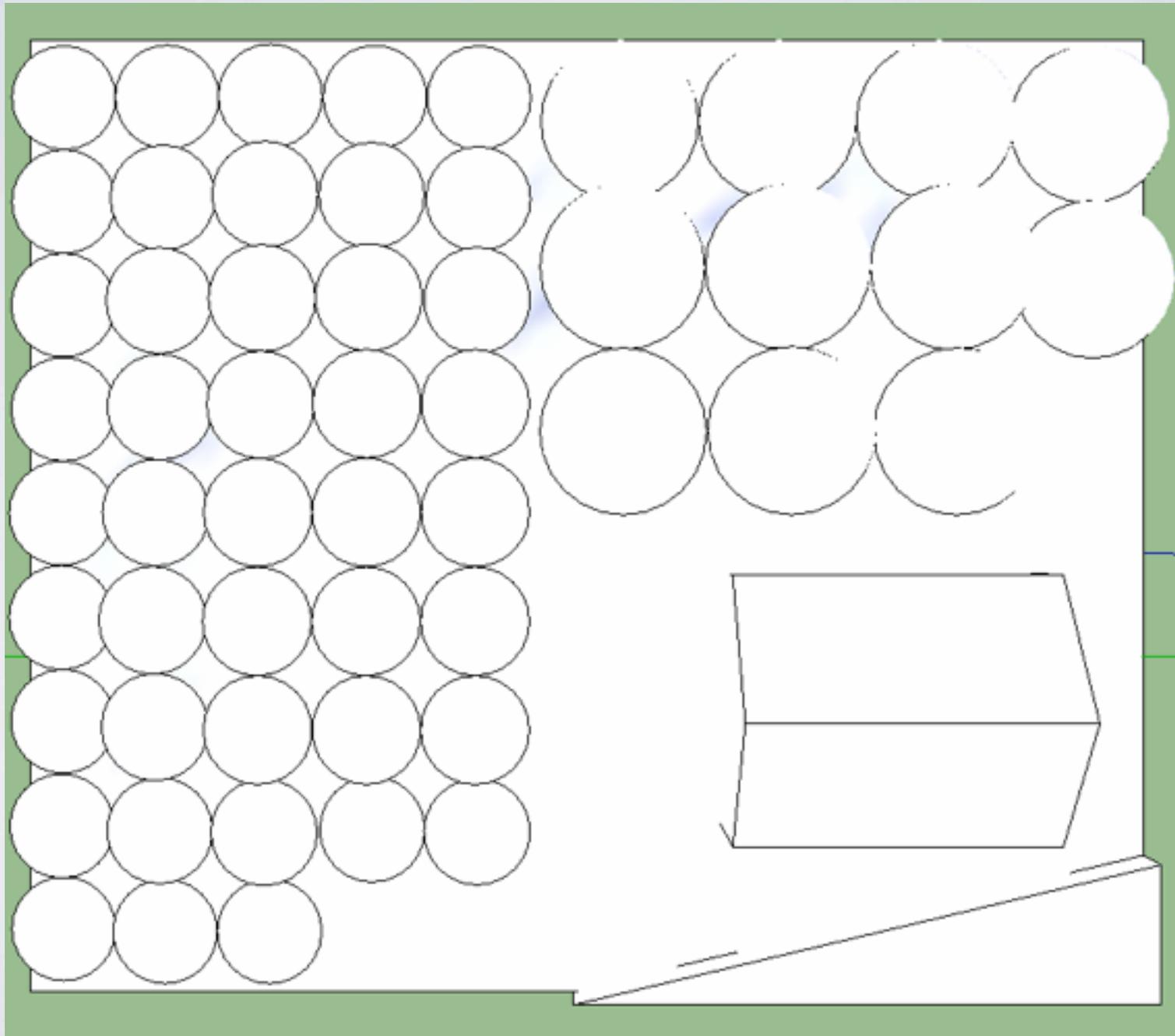
ALOS PRISM

IKONOS, GeoEye-1
Quick Bird, World View

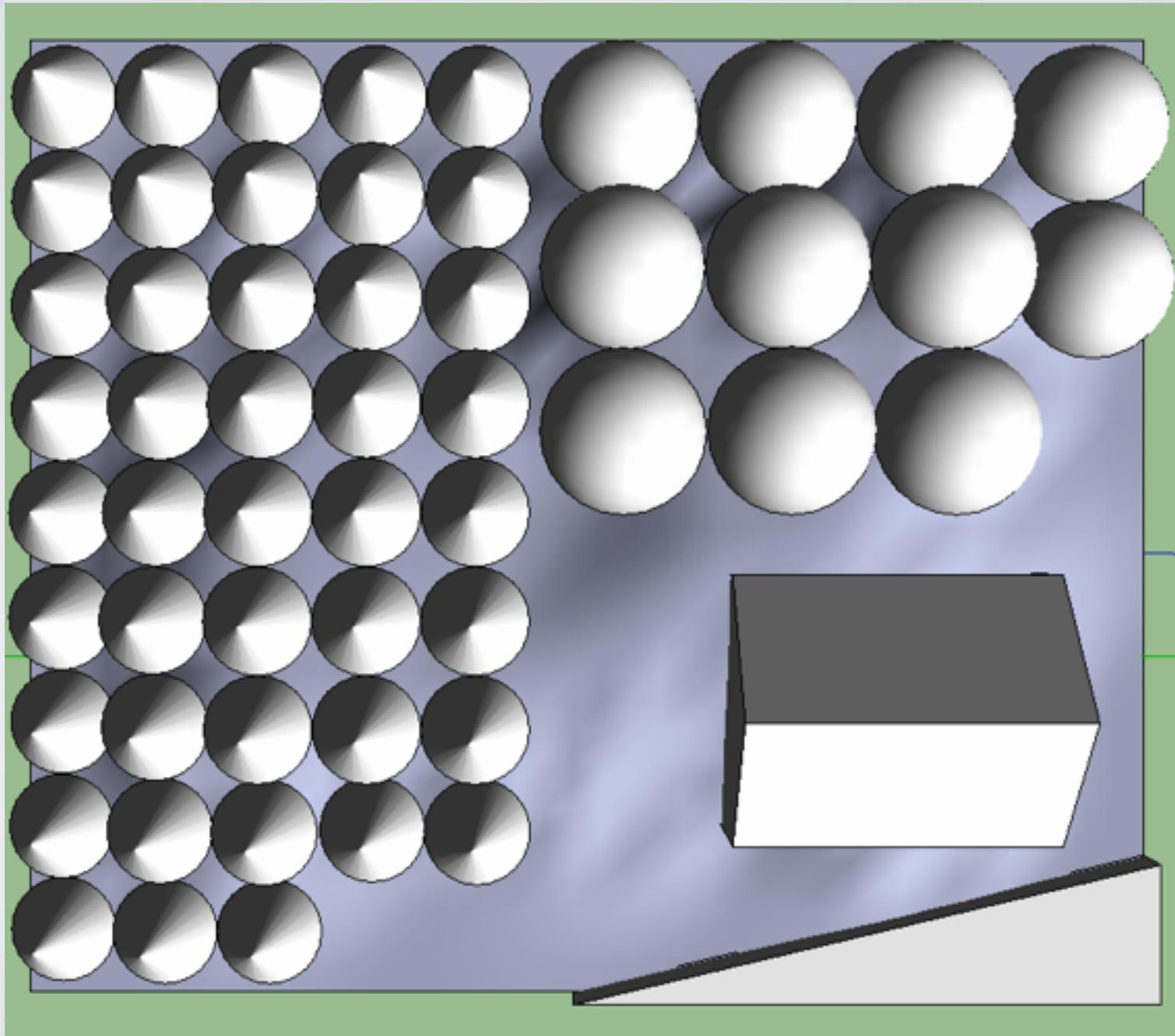


Real World

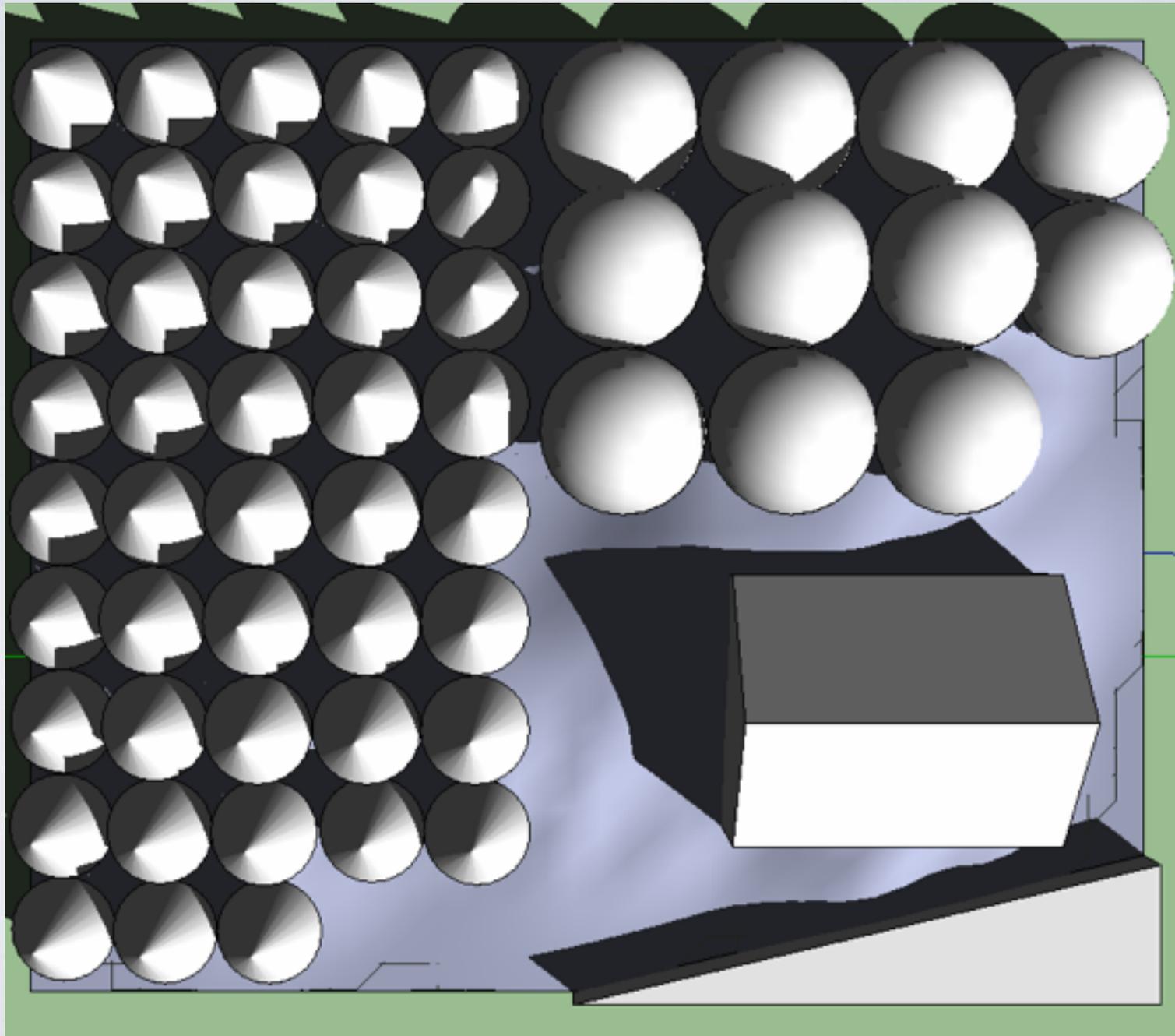
SIMULATION OF SATELLITE DATA



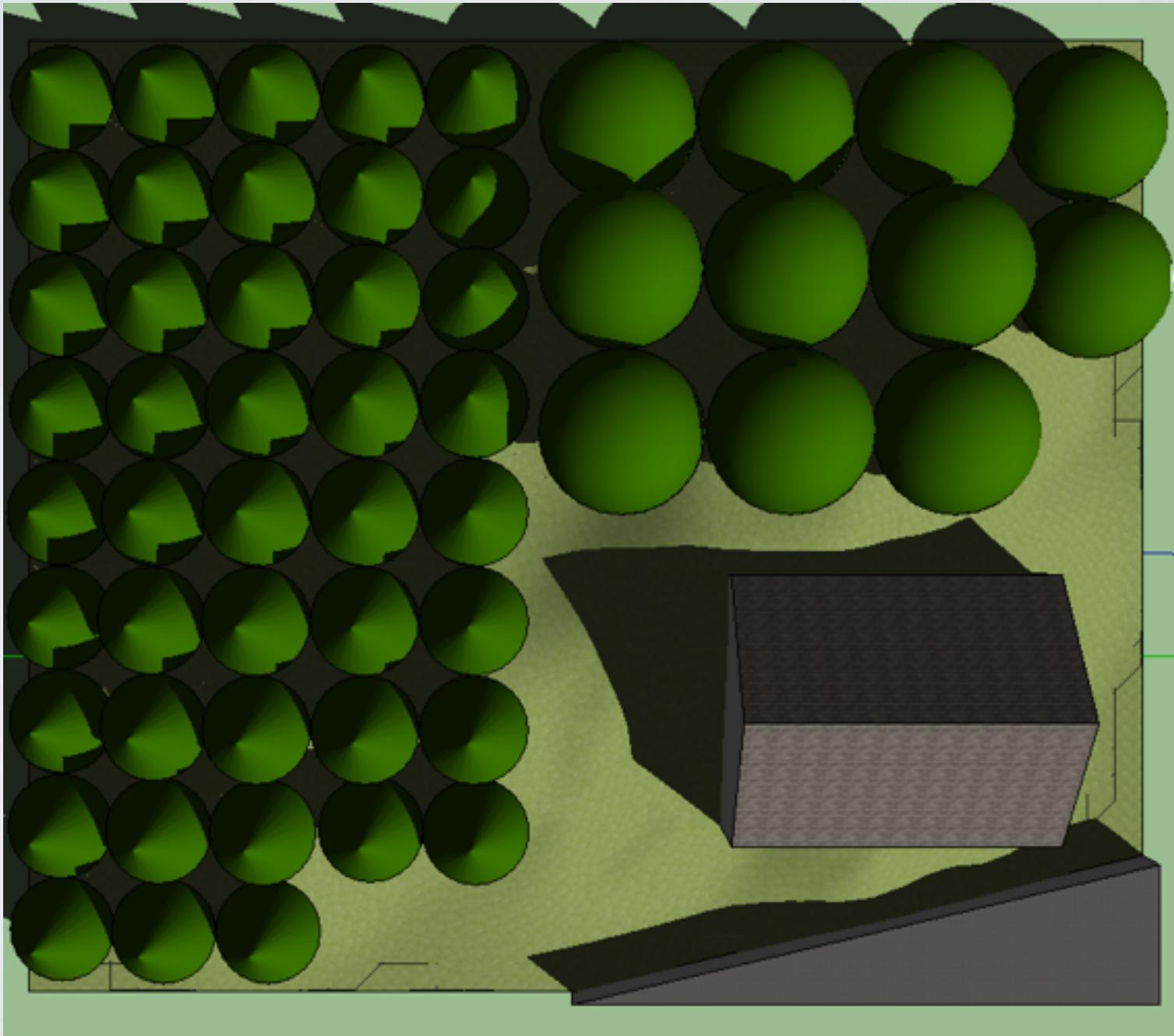
SIMULATION OF SATELLITE DATA



SIMULATION OF SATELLITE DATA



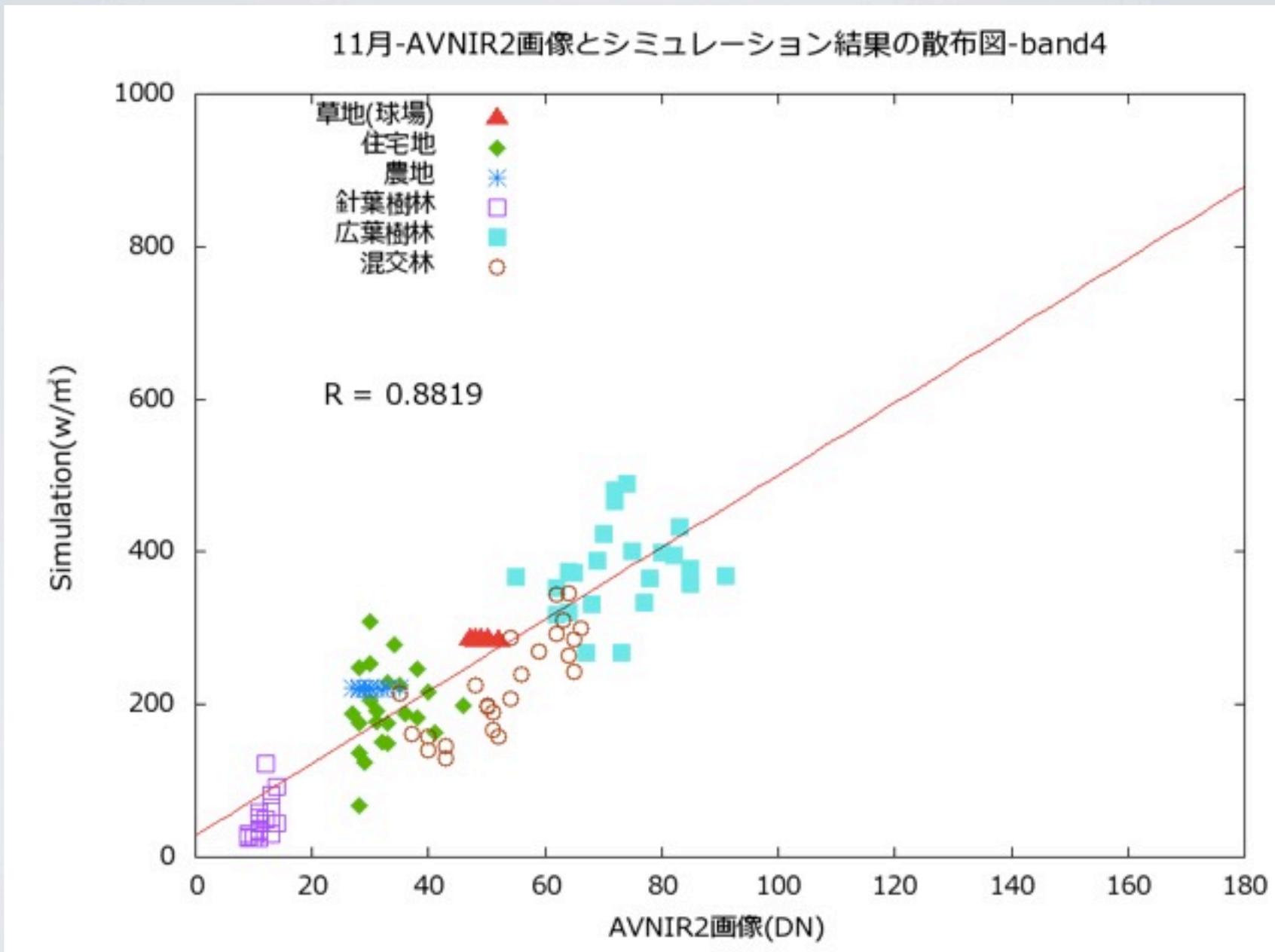
SIMULATION OF SATELLITE DATA



SIMULATION OF SATELLITE DATA



Simulated Value vs. AVNIR2 DN





レイヤ

- LASER_KUT
- SUGINO_kut
- kut





レイヤ

- LASER_KUT
- SUGINO_kut
- kut





レイヤ

- LASER_KUT
- SUGINO_kut
- kut



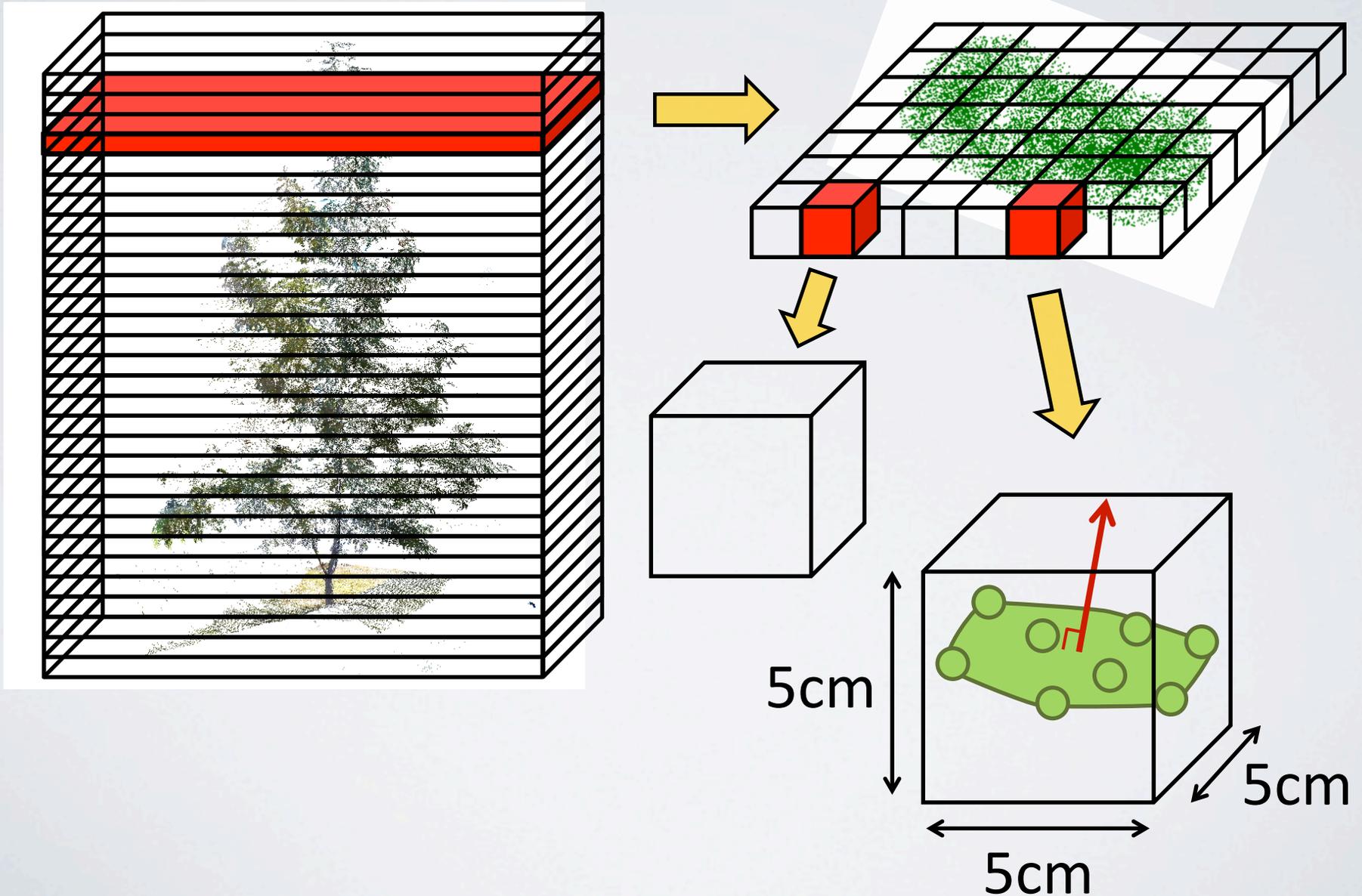
19913.92,68448.08 : 20912.48,69298.61

座標: 20060.069083.8 縮尺: 1:2758 レンダ EPSG:2446

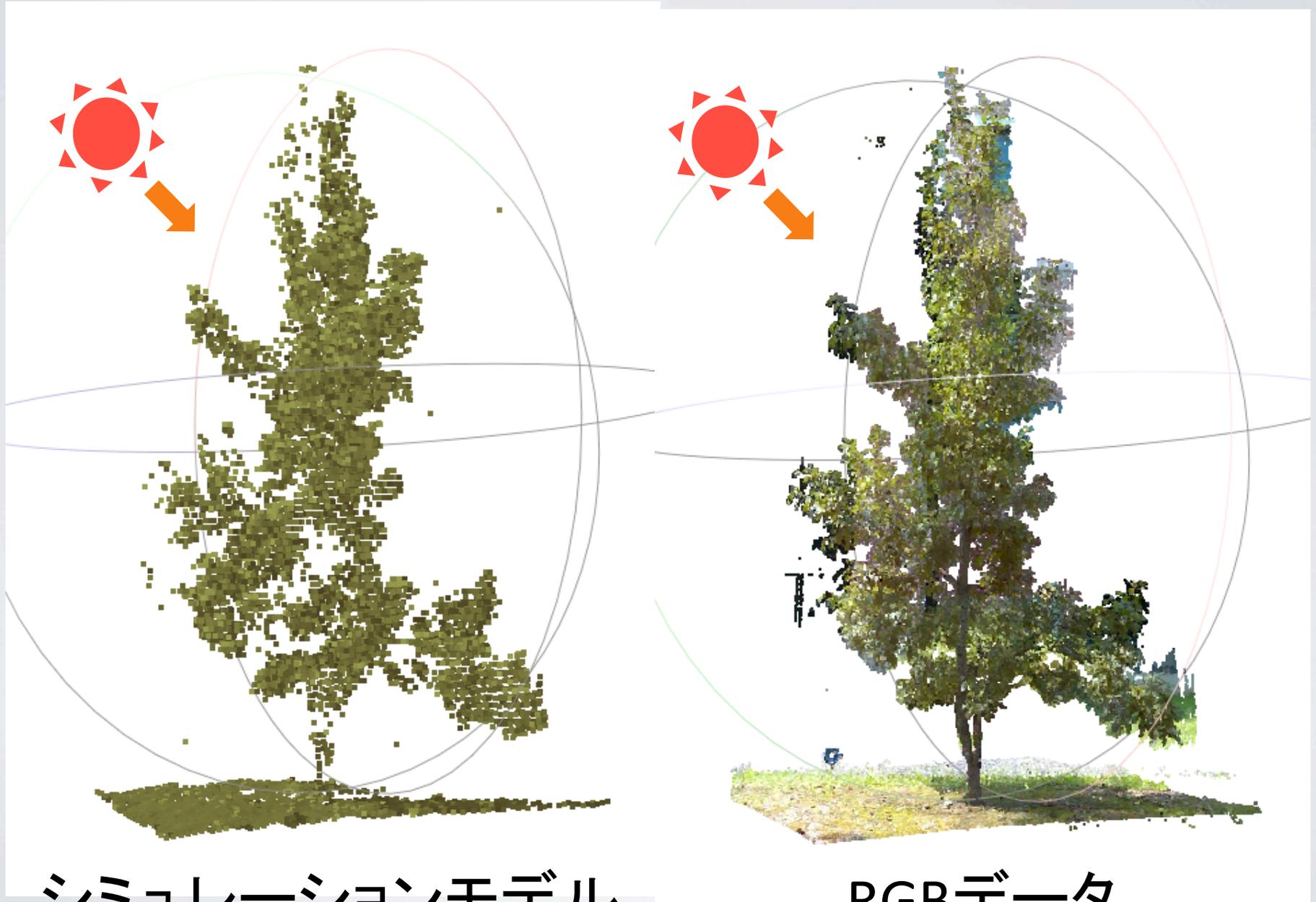
LIDAR DATA (POINT CLOUD)



VOXEL MODEL



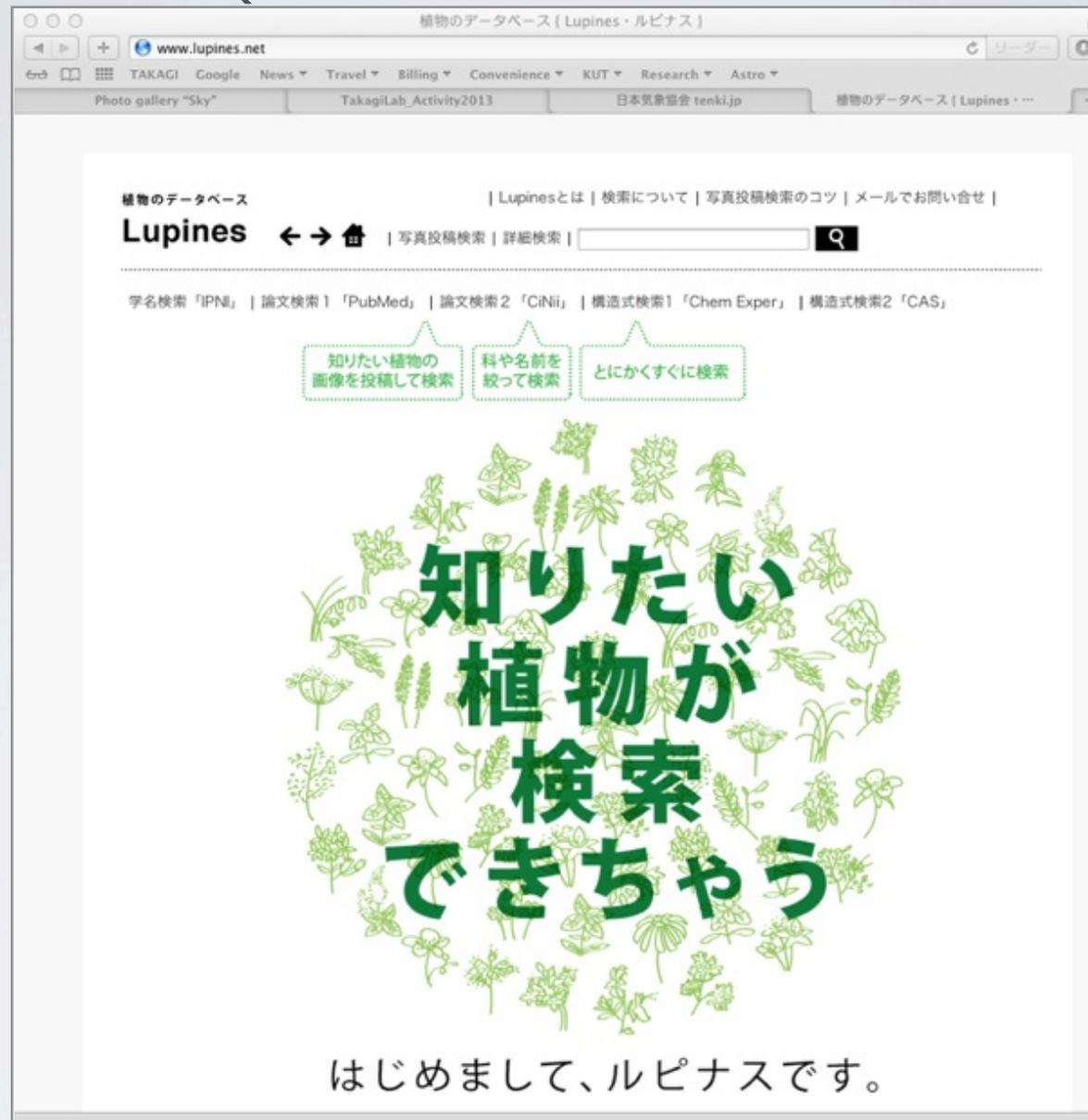
RESULT OF SIMULATION



シミュレーションモデル

RGBデータ

LUPINES (PLANTS DATABASE)



Lupines = (Local Useful Plants with Intelligent Networks of Exploring Surface)

INFORMATION IN LUPINES

ノカンゾウ

代表名 *Hemerocallis fulva* L. var. *disticha* (Donn ex Ker Gawl.)
M.Hotta

[管理]

APG体系 Hemerocallidaceae(ゼンテイカ科)

エンクラ体系 Liliaceae(ユリ科)

和名(別名) No information in present.

漢字名 野萱草

ローマ字名 Nokanzou

英名 Day lilly

中国名 萱草, 長筒萱草

産地と分布 本州から九州, 南西諸島, 中国に分布に分布。山地の溝の淵, 土手などから高山の草原にまでやや湿ったところに生える。

特徴 多年草。高さ50~70cm。根はひも状で、楕円状のふくらみがある。ヤブカンゾウより一回り小型で、地上部は秋に枯れ、根や茎等の一部が残り、翌年芽を出す。匍匐茎を出して広がり、群落を形成する。葉は根生葉で、長さ40~70cm, 幅1~1.5cmと細い広線形。葉の間から70~90cmの花茎を出し、Y字形に分枝する総状花序で、直径約7cm, 花筒は長さ3~4cm, 橙赤色から赤褐色の花を数個つける。一日花で次の日には別の花が咲く。

栽培適地

コラム

一口メモ・伝承

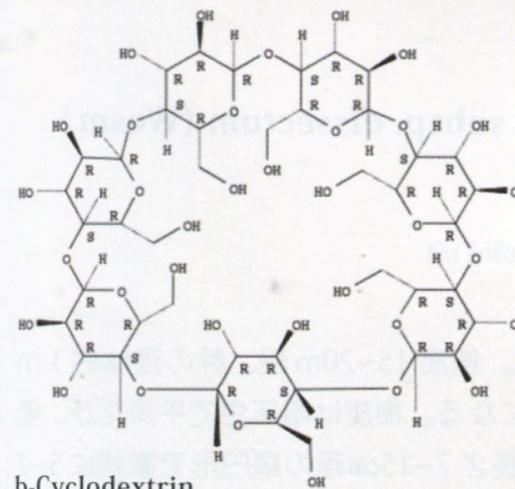
生薬産地

生薬名 金針菜(キンシンサイ)

用途 新芽は天ぷら, 花は6~8月頃採り, 揚げ物, 煮物, 茹でて浸して酢の物, サラダなどにして食べる。若葉は, 3~4月頃の白い芽ややわらかい葉を採り, 軽く茹でて, 水にさらしてから, 和え物, ぬた和え, 酢の物, お浸し, 油炒めなどで食べる。つぼみを採り熱湯で数分ゆがき, 天日乾燥したものを金針菜といい, 根は葉も, 風邪, 不眠症, 利尿, むくみなどに効き目がある。

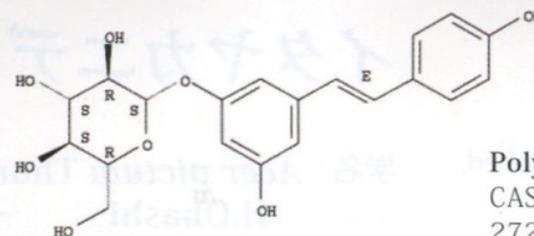


Chemical constituents



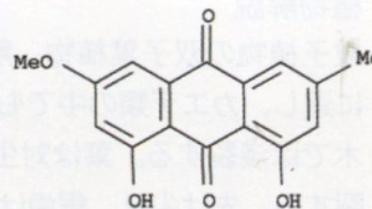
β -Cyclodextrin

CAS Registry Number: 7585-39-9



Polydatin

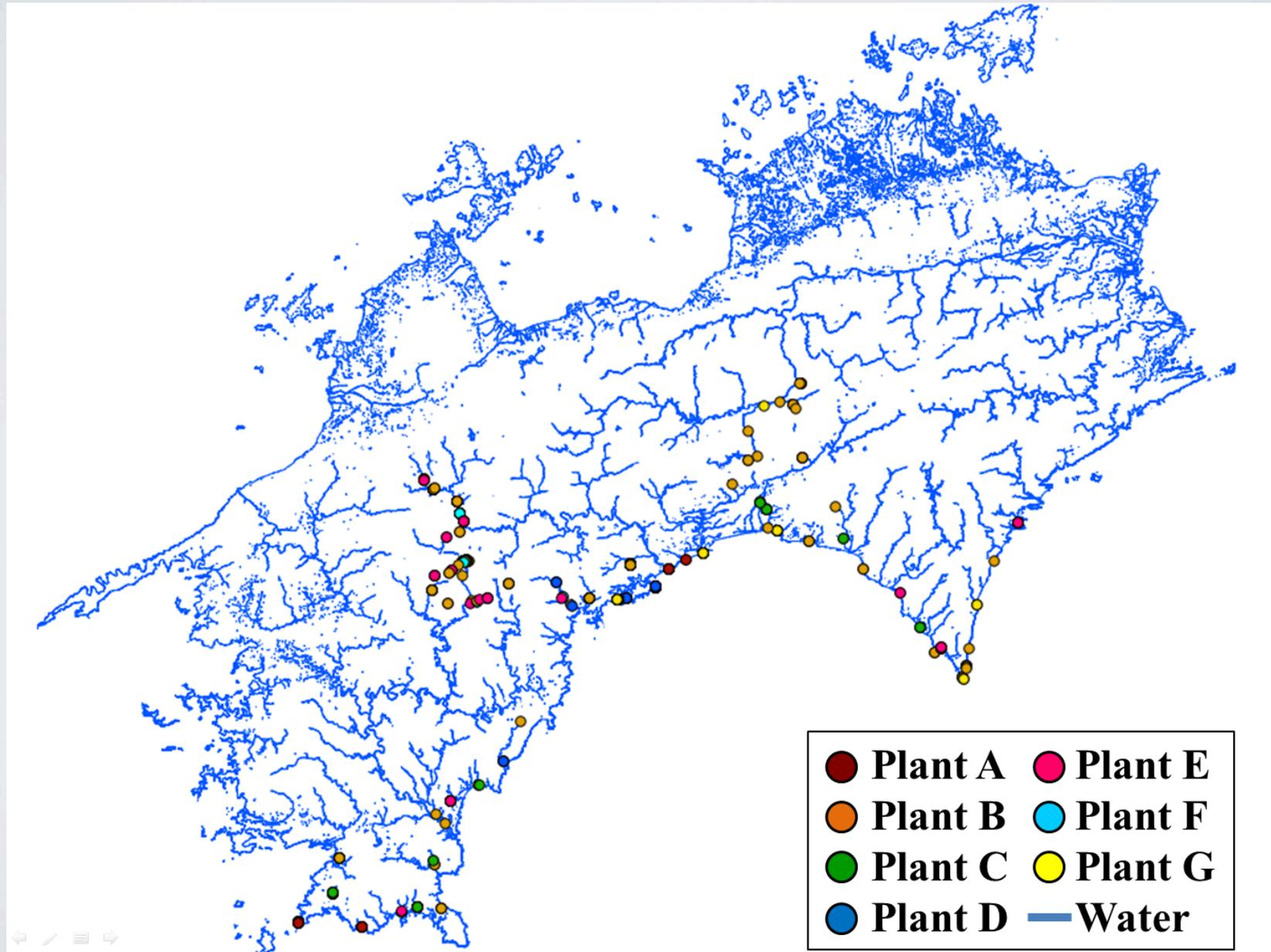
CAS Registry Number:
27208-80-6P

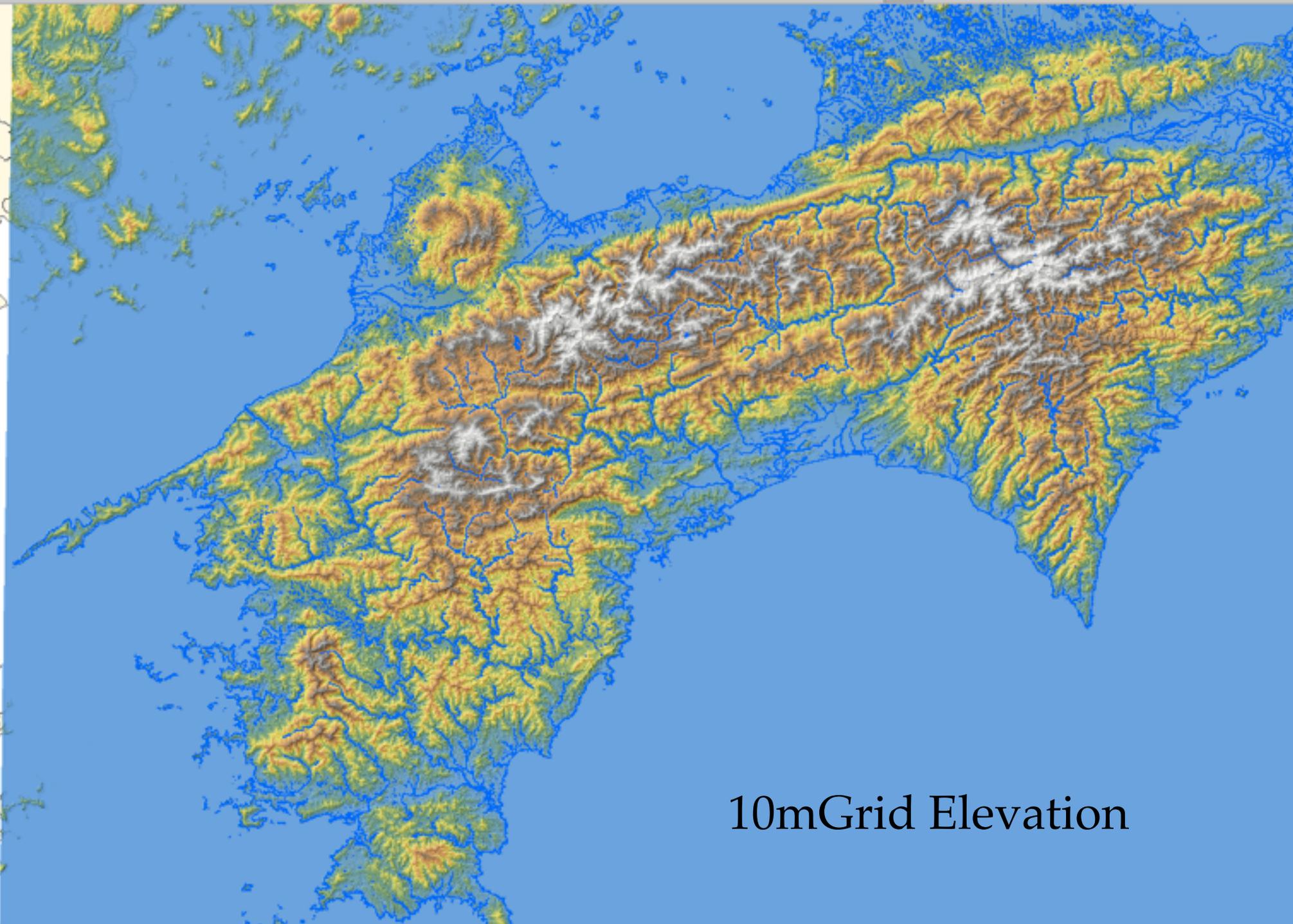


Physcion

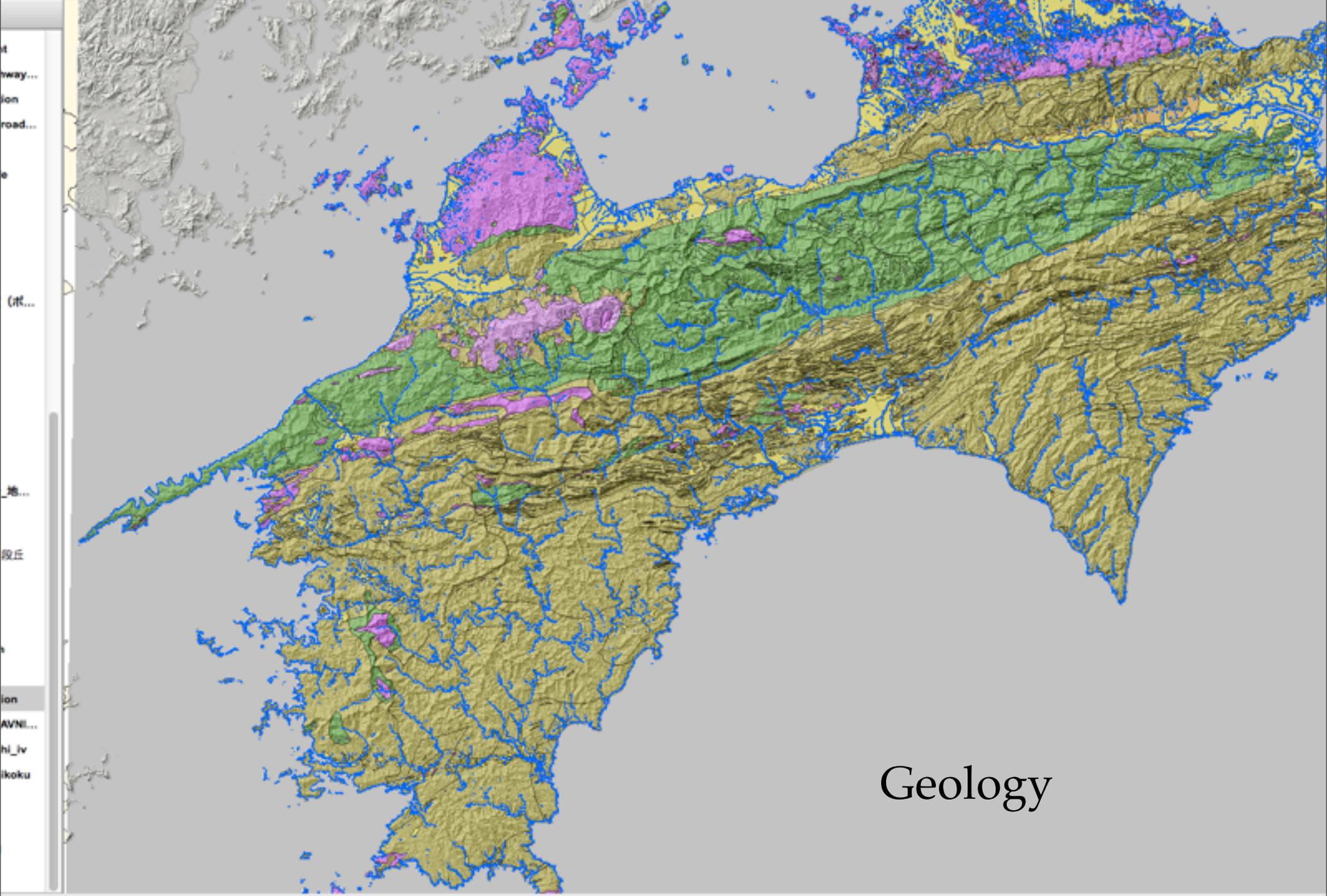
CAS Registry Number:
521-61-9

LOCATION OF PLANTS



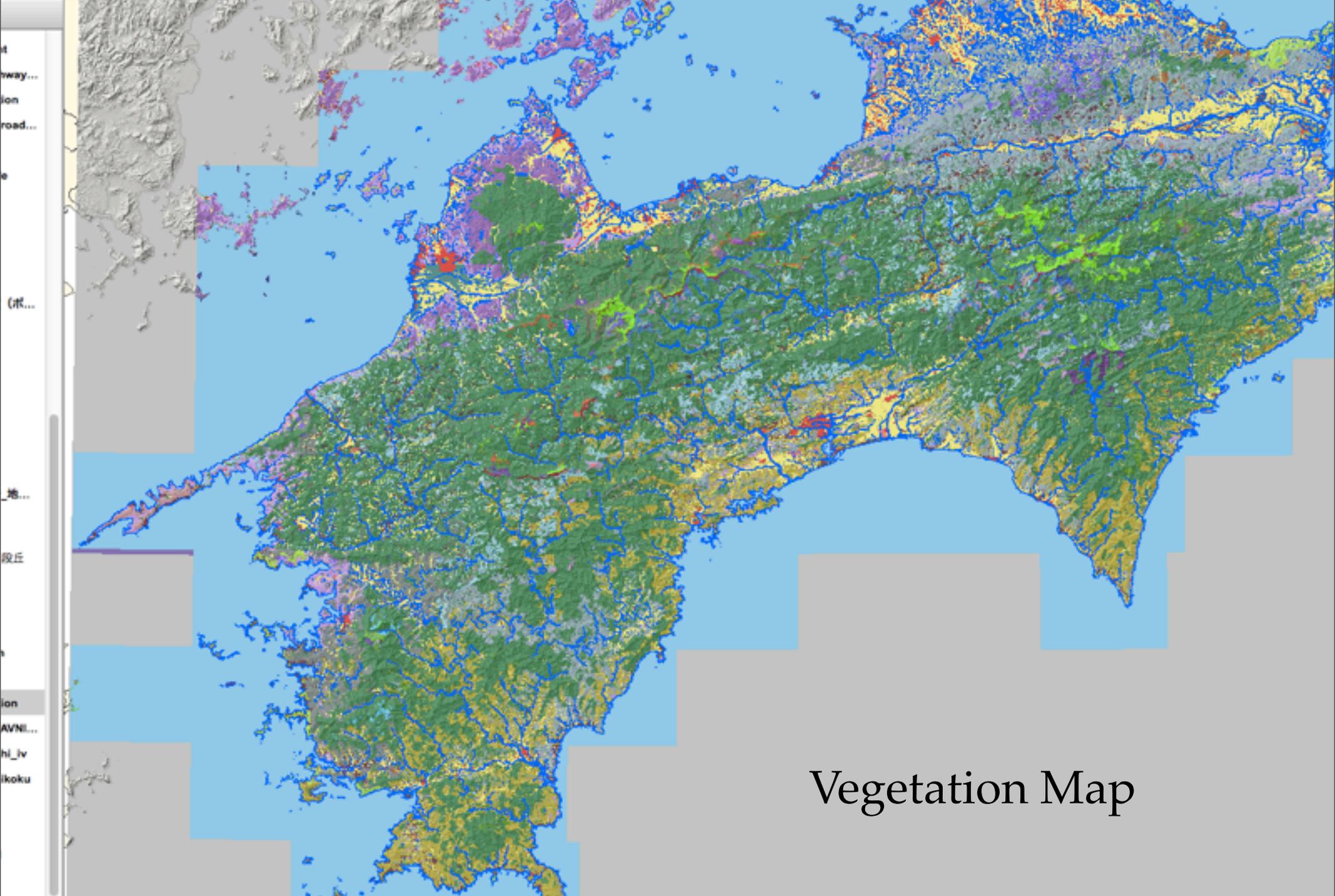
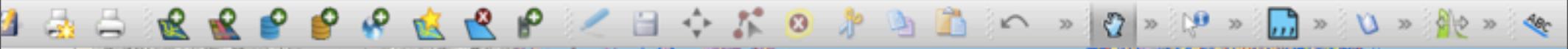


10mGrid Elevation

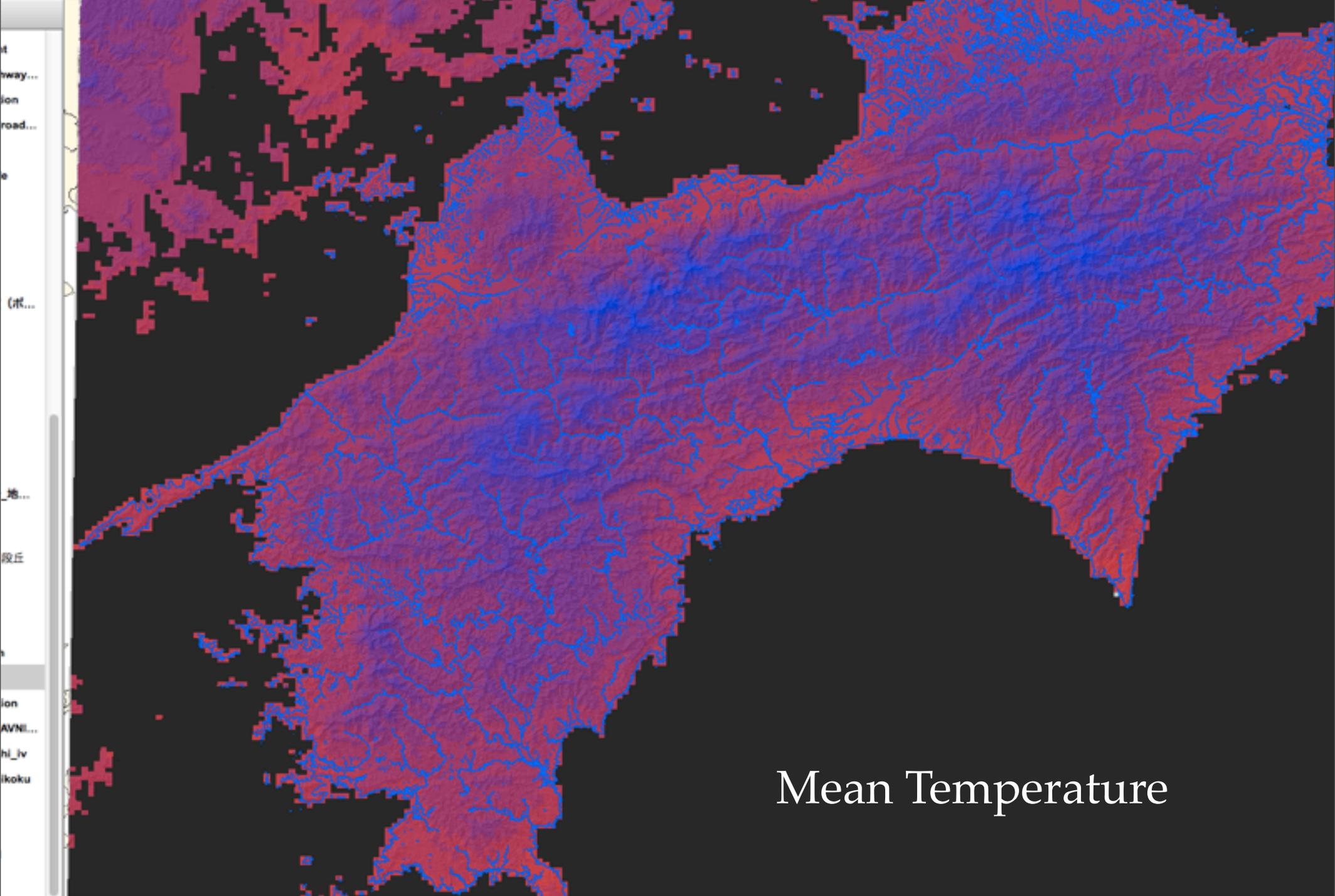
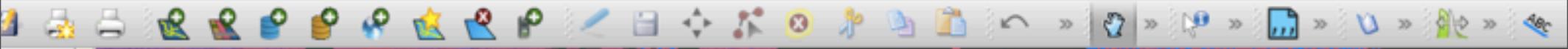


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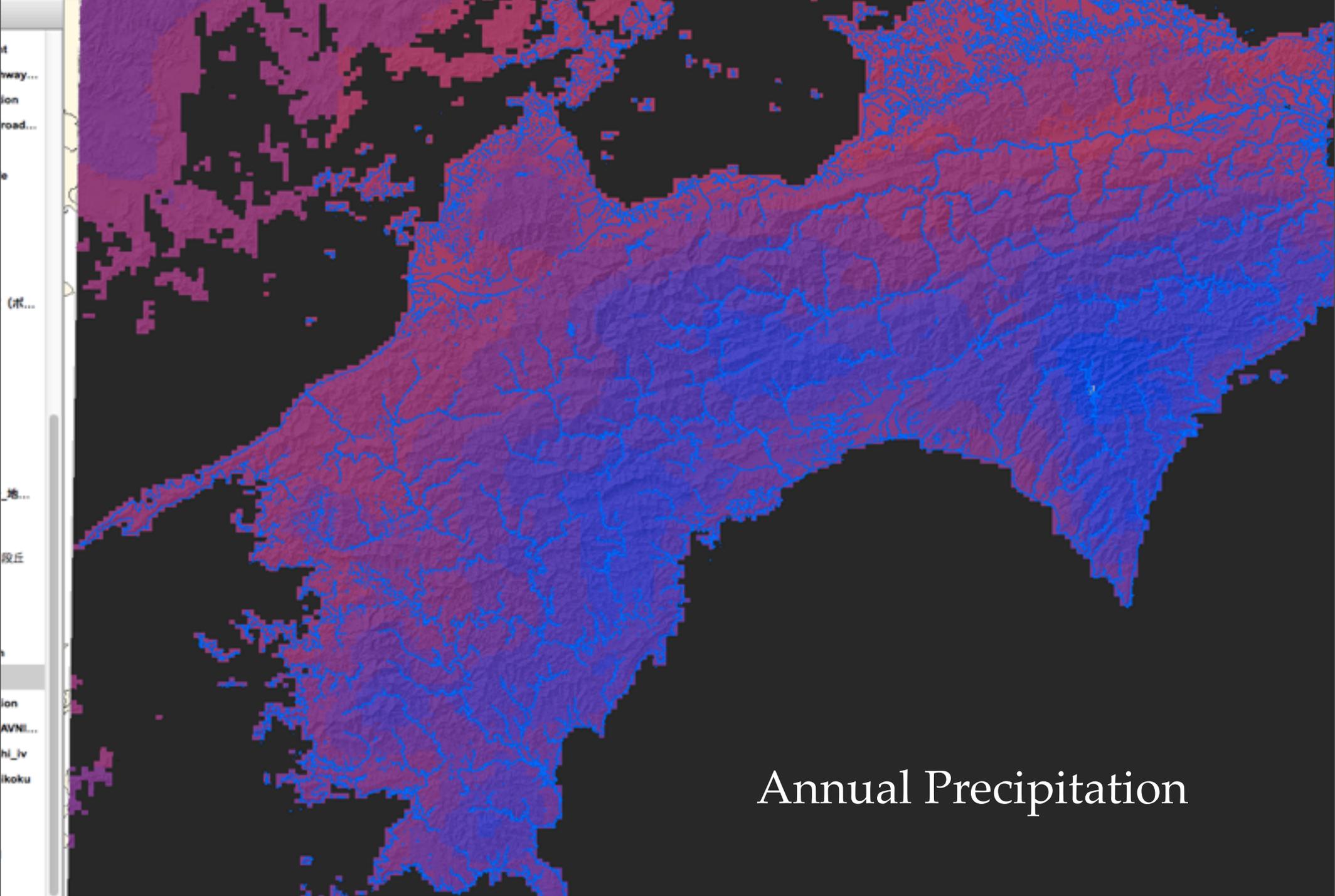
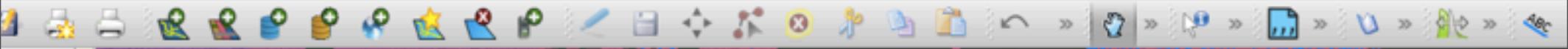
Geology



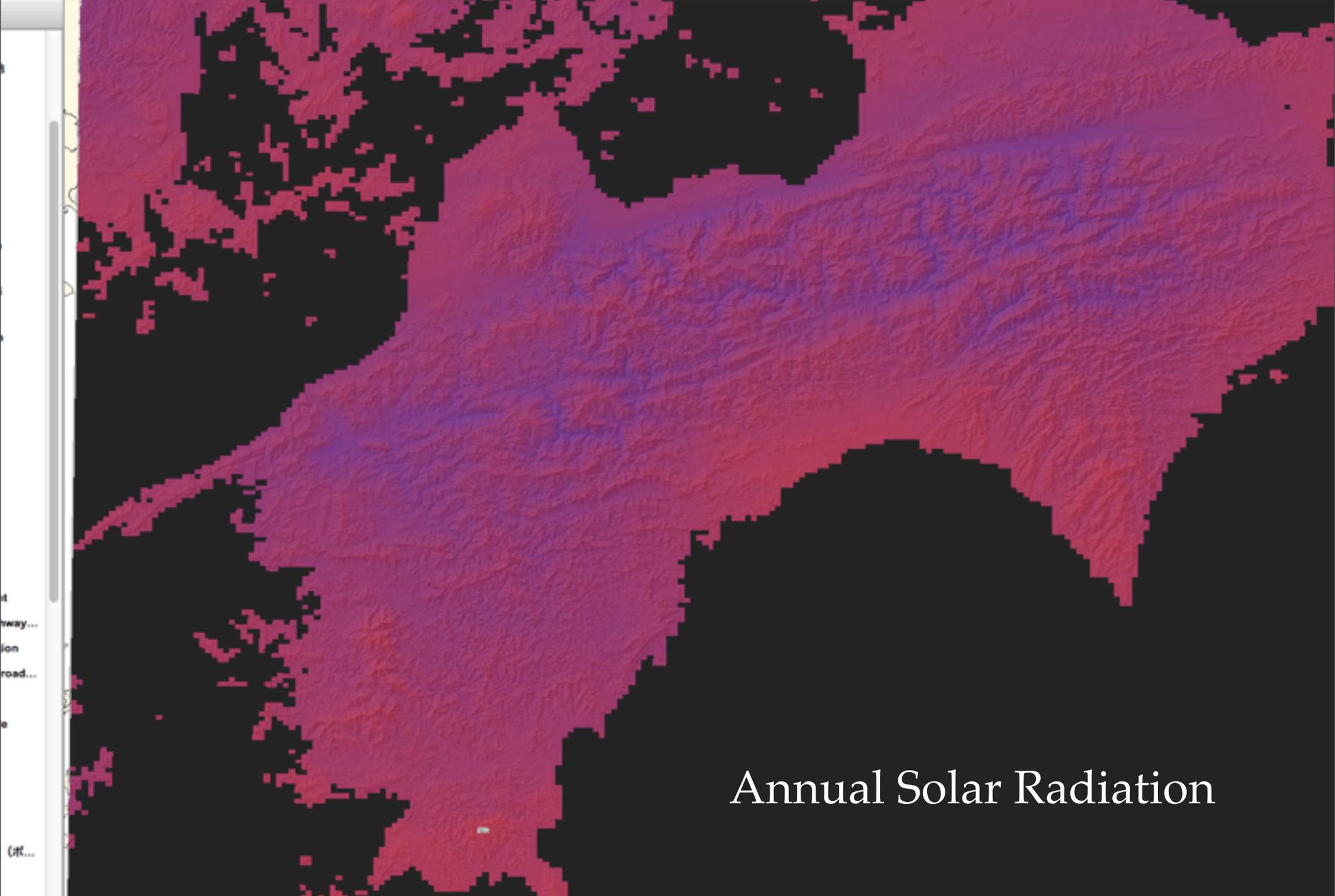
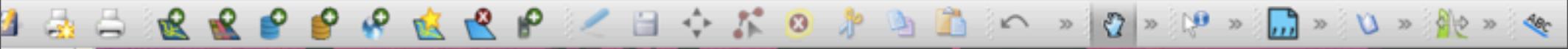
Vegetation Map



Mean Temperature



Annual Precipitation

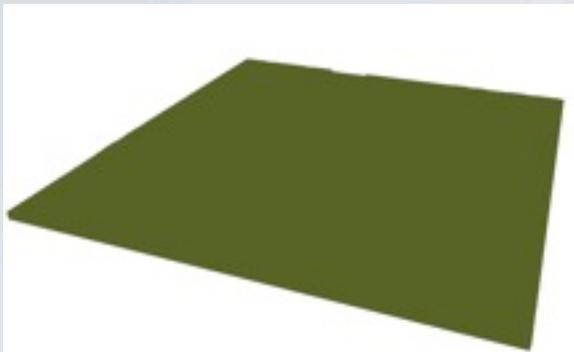


Annual Solar Radiation

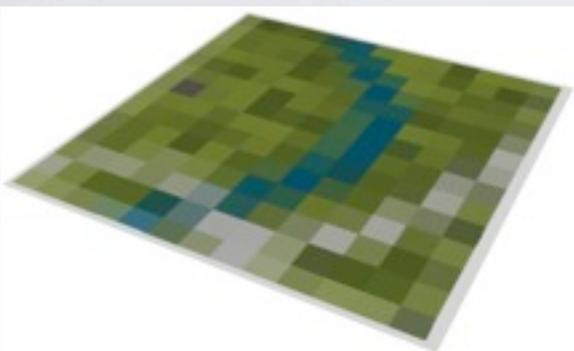
CHARACTERISTICS OF PLANTS DISTRIBUTION

	Elevation(m)	Slope inclination(°)	Slope azimuth	Ridge or Valley	Landform
PlantA	-	-	-	-	Plain~Low mountains
PlantB	-	-	-	-	-
PlantC	0~400	-	-	-	Plain~Low mountains
PlantD	0~600	0~20	-	Flat, Ridge	Plain~Low mountains
PlantE	0~800	-	East	Valley, Flat	-
PlantF	-	0~20	Northwest	-	-
PlantG	0~400	0~20	-	-	-

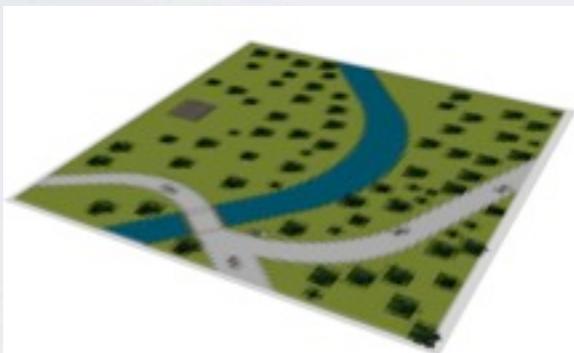
	Annual mean TEMP(°C)		Annual amplitude of TEMP Change(°C)		Annual rainfall(mm)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
PlantA	7.8	17.6	6.4	10.1	1991.8	3041.1
PlantB	7.8	17.5	5.0	10.9	1980.9	3404.0
PlantC	13.3	17.5	5.2	10.7	2113.0	2891.1
PlantD	12.8	16.7	7.5	10.6	2047.9	3167.5
PlantE	10.1	17.5	5.8	10.8	1980.9	3190.9
PlantF	8.0	16.5	9.2	10.7	2047.9	3106.5
PlantG	13.4	17.5	5.0	10.9	2038.0	3404.0



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MODIS



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Quick Bird, World View



Real World